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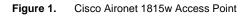
# **Cisco Aironet 1815w Access Point**

With a sleek design and small form factor, the Cisco Aironet 1815w Access Point brings a full slate of Cisco high-performance functionality to multiple-dwelling-unit deployments.

## **Product Overview**

**The Cisco**<sup>®</sup> **Aironet**<sup>®</sup> **1815w** Access Point (Figure 1) offers a compact, wall plate–mountable access point, ideal for hospitality, cruise ships, residential halls, or other multiple-dwelling-unit deployments.

Packing 802.11ac Wave 2 wireless standards support and Gigabit Ethernet wired connectivity into a sleek device, the 1815w is built to take full advantage of existing cabling infrastructure while blending into the visual footprint. This combination provides best-in-class performance while reducing total cost of ownership.





# Features and Benefits

By adhering to the 802.11ac Wave 2 standard, the 1815w provides a data rate of up to 867 Mbps on its 5-GHz radio. This exceeds the data rates offered by access points that support the 802.11n standard. It also enables a total aggregate dual-radio data rate of up to 1 Gbps. This provides the necessary foundation for enterprise and service provider networks to stay ahead of the performance expectations and needs of their wireless users.

In recent years corporate users have increasingly preferred wireless access as their form of network connectivity, due to its convenience. With this shift, there is an expectation that wireless should not slow down users' day-to-day activities, but should enable a high-performance experience while allowing users to move about freely. The 1815w delivers industry-leading performance with highly secure and reliable wireless connections that provide a robust, mobile end-user experience.

Feature	Benefit
Μυ-ΜΙΜΟ	Multiuser (MU) multiple-input multiple-output (MU-MIMO) allows simultaneous data transmission to multiple 802.11ac Wave 2–capable clients to improve the client experience. Prior to MU-MIMO, 802.11n and 802.11ac Wave 1 access points could transmit data to only one client at a time. This was typically referred to as single-user MIMO (SU-MIMO).
Gigabit Ethernet ports	Three local Gigabit Ethernet ports are available to securely connect wired devices to the network. Traffic from wired devices can be tunneled back to a wireless LAN controller (for compatible controllers) or be locally switched by the access point. One of these Ethernet ports can also provide Power over Ethernet (PoE) out to power a device such as an IP phone or a security camera.
Cisco Mobility Express solution	Flexible deployment through the <u>Cisco Mobility Express solution</u> is ideal for small to medium-sized deployments that require 50 or fewer access points. Easy setup allows the 1815w to be deployed on networks without a physical controller.
Integrated Bluetooth 4.1	Integrated Bluetooth low-energy (BLE) 4.1 radio for location and asset tracking (future availability).

#### **Increased Wireless Performance**

The Aironet 1815w access point supports the latest 802.11ac Wave 2 standard for higher performance, greater access, and higher-density networks. With simultaneous dual radios and dual band with 802.11ac Wave 2 MU-MIMO functionality, this access point can handle the increasing number of high-bandwidth devices that will soon become a common part of the network.

#### Wired Access

The 1815w allows wired access via a single RJ-45 10/100/1000 auto detection port. It supports full operation modes using PoE 802.3af power. The 1815w comes with three local Gigabit Ethernet ports, one uplink Gigabit Ethernet port, and one passive pass-through RJ-45 port, allowing for a variety of connections.

#### Mounting

This sleek access point with a small form factor is designed with flexible mounting options in mind. You can mount it directly on the wall or to numerous global wall junction standards. The access point is also easy to install.

# **Product Specifications**

Table 1 lists the specifications for the Cisco Aironet 1815w Access Point. Table 2 lists the RF specifications.

Item	Specification
Authentication and security	<ul> <li>Advanced Encryption Standard (AES) for Wi-Fi Protected Access 2 (WPA2)</li> <li>802.1X, RADIUS authentication, authorization and accounting (AAA)</li> <li>802.11r</li> <li>802.11i</li> </ul>
Software	<ul> <li>Cisco Unified Wireless Network Software with AireOS Wireless Controllers Release 8.5 or later</li> <li>Cisco Mobility Express</li> </ul>
Maximum clients	• Maximum number of associated wireless clients: 200 per Wi-Fi radio, in total 400 clients per access point
802.11ac	<ul> <li>2x2 single-user/multiuser MIMO with two spatial streams</li> <li>Maximal ratio combining (MRC)</li> <li>20-, 40-, and 80-MHz channels</li> <li>PHY data rates up to 866.7 Mbps (80 MHz on 5 GHz)</li> <li>Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Rx)</li> <li>802.11 Dynamic Frequency Selection (DFS)</li> <li>Cyclic shift diversity (CSD) support</li> </ul>

Table 1. Specifications

Item	Specificatio	on								
Ethernet ports			02.1X or MAC fi	Itered						
	<ul> <li>Dynamic VLAN or per port</li> <li>Traffic locally switched or tunneled back to wireless LAN controller</li> </ul>									
Bluetooth	Integrated Bluetooth 4.1 (including BLE) radio									
(future Availability)			ower: 4 dBm							
	Antenna gain: 2 dBi									
Data rates supported	802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps									
	802.11b/g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54 Mbps 802.11n data rates on 2.4 GHz:									
			Gl <sup>2</sup> = 800 ns			GI = 400 ns				
	MCS Index <sup>1</sup>		20-MHz Rate	(Mhns)		20-MHz Rate	(Mbns)			
	0		6.5	(111043)		7.2	(1110)53/			
	1		13			14.4				
	2		19.5			21.7				
	3		26			28.9				
	4		39			43.3				
	5		52			57.8				
	6		58.5			65				
	7		65			72.2				
	8		13			14.4				
	9		26			28.9				
	10		39			43.3				
	11		52			57.8				
	12		78			86.7				
	13		104			115.6				
	14		117			130				
	15 130					144.4				
	802.11ac data rates on 5 GHz:									
	MCS Index	Spatial Streams	GI = 800 ns			GI = 400 ns				
			20-MHz Rate (Mbps)	40-MHz Rate (Mbps)	80-MHz Rate (Mbps)	20-MHz Rate (Mbps)	40-MHz Rate (Mbps)	80-MHz Rate (Mbps)		
	0	1	6.5	13.5	29.3	7.2	15	32.5		
	1	1	13	27	58.5	14.4	30	65		
	2	1	19.5	40.5	87.8	21.7	45	97.5		
	3	1	26	54	117	28.9	60	130		
	4	1	39	81	175.5	43.3	90	195		
	5	1	52	108	234	57.8	120	260		
	6	1	58.5	121.5	263.3	65	135	292.5		
	7	1	65	135	292.5	72.2	150	325		
	8	1	78	162	351	86.7	180	390		
	9	1	-	180	390	-	200	433.3		
	0	2	13	27	58.5	14.4	30	65		
	1	2	26	54	117	28.9	60	130		

ltem	Specifica	ation						
	2	2	39	81	175.5	43.3	90	195
	3	2	52	108	234	57.8	120	260
	4	2	78	162	351	86.7	180	390
	5	2	104	216	468	115.6	240	520
	6	2	117	243	526.5	130	270	585
	7							
		2	130	270	585	144.4	300	650
	8	2	156	324	702	173.3	360	780
	9	2	-	360	780	-	400	866.7
Maximum number of non-overlapping channels	<ul> <li>2.412</li> <li>5.180</li> <li>5.500 (exclu</li> <li>5.745</li> <li>B (B regi</li> <li>2.412</li> <li>5.180</li> <li>5.745</li> <li>C (C regi</li> <li>2.412</li> <li>5.745</li> <li>D (D regi</li> <li>2.412</li> <li>5.180</li> <li>5.745</li> <li>E (E regi</li> <li>2.412</li> <li>5.180</li> <li>5.500 (exclu</li> <li>F (F regi</li> <li>2.412</li> <li>5.745</li> <li>G (G regi</li> <li>2.412</li> <li>5.745</li> <li>G (G regi</li> <li>2.412</li> <li>5.745</li> <li>H (H regii)</li> <li>2.412</li> <li>5.180</li> <li>5.745</li> <li>I (I regui)</li> <li>2.412</li> </ul>	0       to 5.320 Gł         0       to 5.700 Gł         1       udes 5.600 t         5       to 5.825 Gł         1       ulatory don         2       to 2.462 Gł         0       to 5.720 Gł         5       to 5.825 Gł         1       ulatory don         2       to 2.472 Gł         5       to 5.825 Gł         1       ulatory don         2       to 2.472 Gł         5       to 5.320 Gł         1       to 5.472 Gł         2       to 2.472 Gł         5       to 5.805 Gł         ulatory dom       to 5.320 Gł         2       to 2.472 Gł         5       to 5.320 Gł         1       to 5.320 Gł         2       to 2.472 Gł         5       to 5.320 Gł         1       to 5.320 Gł         2       to 5.320 Gł         5       to 5.325 Gł <tr< td=""><td><ul> <li>Hz; 11 channels</li> <li>Hz; 8 channels</li> <li>Hz; 8 channels</li> <li>Hz; 5 channels</li> <li>hz; 5 channels</li> <li>hz; 11 channels</li> <li>Hz; 12 channels</li> <li>Hz; 12 channels</li> <li>Hz; 13 channels</li> <li>Hz; 13 channels</li> <li>Hz; 11 channels</li> <li>Hz; 13 channels</li> </ul></td><td></td><td><ul> <li>2.412 ti</li> <li>5.180 ti</li> <li>5.745 ti</li> <li>N (N reguli</li> <li>2.412 ti</li> <li>5.180 ti</li> <li>5.745 ti</li> <li>Q (Q reguli</li> <li>2.412 ti</li> <li>5.180 ti</li> <li>5.500 ti</li> <li>5.745 ti</li> <li>G (R reguli</li> <li>2.412 ti</li> <li>5.180 ti</li> <li>5.660 ti</li> <li>5.745 ti</li> <li>S (S reguli</li> <li>2.412 ti</li> <li>5.180 ti</li> <li>5.745 ti</li> <li>T (T reguli</li> <li>2.412 ti</li> <li>5.280 ti</li> <li>5.765 ti</li> <li>Z (Z reguli</li> <li>2.412 ti</li> <li>5.180 ti</li> <li>5.500 ti</li> <li>5.745 ti</li> <li>T (T reguli</li> <li>2.412 ti</li> <li>5.280 ti</li> <li>5.500 ti</li> <li>5.745 ti</li> <li>Z (Z reguli</li> <li>2.412 ti</li> <li>5.180 ti</li> <li>5.500 ti</li> <li>5.765 ti</li> <li>Z (Z reguli</li> <li>2.412 ti</li> <li>5.180 ti</li> <li>5.500 ti</li> <li>5.500 ti</li> <li>5.765 ti</li> </ul></td><td>atory domain): o 2.472 GHz; 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Item	Specification					
Available transmit	2.4 GHz	5 GHz				
power settings	20 dBm (100 mW)	20 dBm (100 mW)				
	17 dBm (50 mW)	17 dBm (50 mW)				
	14 dBm (25 mW)	14 dBm (25 mW)				
	11 dBm (12.5 mW)	11 dBm (12.5 mW)				
	8 dBm (6.25 mW)	8 dBm (6.25 mW)				
	5 dBm (3.13 mW) 5 dBm (3.13 mW)					
	2 dBm (1.56 mW)	2 dBm (1.56 mW)				
Neter The manimum and	-1 dBm (0.78 mW)	-1 dBm (0.78 mW)				
specific details.	er setting will vary by channel and according to individual of	ountry regulations. Refer to the product documentation for				
Integrated antennas	<ul> <li>2.4 GHz, gain 2 dBi</li> <li>5 GHz, gain 3 dBi</li> </ul>					
1.4.4.						
Interfaces	• 1 x 10/100/1000BASE-T autosensing (RJ-45), Power	over Ethernet (PoE)				
	Management console port (4-pin connector)					
	Three 10/100/1000BASE-T ports (local Ethernet ports	· - ·				
	<ul> <li>PoE out provides 802.3af (class 0) when access po 802.3af</li> </ul>	int is powered by 802.3at, or no output when powered by				
	<ul> <li>One passive pass-through port RJ-45 (back to bottom</li> </ul>	)				
1. P		•				
Indicators	<ul> <li>Status LED indicates boot loader status, association s errors</li> </ul>	tatus, operating status, boot loader warnings, boot loader				
Dimensions (W x L x H)	• Access point (without mounting bracket): 3.5 x 5.5 x 1	.25 in (89 x 140 x 31.5 mm)				
Weight	<ul> <li>Access point without mounting bracket or any other ad</li> </ul>	ccessories: 10 oz (280 g)				
Environmental	Operating					
Linnoninonal	<ul> <li>Temperature: 32° to 104°F (0° to 40°C)</li> </ul>					
	<ul> <li>Hemperature: 32 to 104 f (0 to 40 C)</li> <li>Humidity: 10% to 90% (non-condensing)</li> </ul>					
	<ul> <li>Max. altitude: 9843 ft (3,000 m) @ 40°C</li> <li>Non-operating (storage and transportation)</li> </ul>					
	<ul> <li>Temperature: -22° to 158°F (-30° to 70°C)</li> </ul>					
	<ul> <li>reinperadue: -22 to 158 P (-50 to 70 C)</li> <li>Humidity: 10% to 90% (non-condensing)</li> <li>Max. altitude: 15,000 ft (4,500 m) @ 25°C</li> </ul>					
System	• 1 GB DRAM					
	• 256 MB flash					
	<ul> <li>710 MHz quad-core</li> </ul>					
Powering options	<ul> <li>802.3af/at Ethernet switch</li> </ul>					
	• Optional Cisco power injectors (AIR-PWRINJ5=, AIR-	PWRINJ6=)				
Power draw	• 8.5W (maximum, without PoE out)					
Physical security	<ul> <li>Torx security screw, included with the access point</li> </ul>					
	Kensington lock slot to lock device to mounting bracket.					
Mounting	Included with the access point: mounting bracket AIR-AP-BRACKET-W3					
Accessories	Mounting bracket: AIR-AP-BRACKET-W3= (available as spare)					
	<ul> <li>Spacer kit: AIR-AP1815W-KIT= (sold separately), incl</li> </ul>	udes spacer and RJ-45 jumper cable				
	• Physical security kit: AIR-SEC-50= (sold separately),					
	point onto wall-mounting bracket, 50 pcs. RJ-45 caps Ethernet ports	and 2 pcs. unlock keys used to block physical access to				
Warranty	Limited Lifetime Hardware Warranty					
	,					
Compliance	Safety:					
	• UL 60950-1					
	• CAN/CSA-C22.2 No. 60950-1					
	° UL 2043					
	<ul> <li>IEC 60950-1</li> </ul>					
	<ul> <li>EN 60950-1</li> </ul>					

Item	Specification
	Radio approvals:
	<ul> <li>FCC Part 15.247, 15.407</li> </ul>
	<ul> <li>RSS-247 (Canada)</li> </ul>
	<ul> <li>EN 300.328, EN 301.893 (Europe)</li> </ul>
	<ul> <li>ARIB-STD 66 (Japan)</li> </ul>
	<ul> <li>ARIB-STD T71 (Japan)</li> </ul>
	<ul> <li>EMI and susceptibility (Class B)</li> </ul>
	<ul> <li>FCC Part 15.107 and 15.109</li> </ul>
	<ul> <li>ICES-003 (Canada)</li> </ul>
	<ul> <li>VCCI (Japan)</li> </ul>
	<ul> <li>EN 301.489-1 and -17 (Europe)</li> </ul>
	◦ EN 50385
	IEEE standards:
	<ul> <li>IEEE 802.11a/b/g, 802.11n, 802.11h, 802.11d</li> </ul>
	• IEEE 802.11ac
	Security:
	<ul> <li>802.11i, WPA2, WPA</li> </ul>
	° 802.1X
	• AES
	<ul> <li>Extensible Authentication Protocol (EAP) types:</li> </ul>
	<ul> <li>EAP-Transport Layer Security (TLS)</li> </ul>
	<ul> <li>EAP-Tunneled TLS (TTLS) or Microsoft Challenge Handshake Authentication Protocol Version 2 (MSCHAPv2)</li> </ul>
	<ul> <li>Protected EAP (PEAP) v0 or EAP-MSCHAPv2</li> </ul>
	<ul> <li>EAP-Flexible Authentication via Secure Tunneling (FAST)</li> </ul>
	<ul> <li>PEAP v1 or EAP-Generic Token Card (GTC)</li> </ul>
	<ul> <li>EAP-Subscriber Identity Module (SIM)</li> </ul>
	Multimedia:
	<ul> <li>Wi-Fi Multimedia (WMM)</li> </ul>
	• Other:
	<ul> <li>FCC Bulletin OET-65C</li> </ul>
	• RSS-102

<sup>1</sup> MCS Index: The Modulation and Coding Scheme (MCS) index determines the number of spatial streams, the modulation, and the coding rate and data rate values.

<sup>2</sup> A guard interval (GI) between symbols helps receivers overcome the effects of multipath delay spreads.

Transmit Power and Receive Sensitivity (1815w)								
		2.4-GHz Radio		5-GHz Radio				
	Spatial Streams	Total TX Power (dBm)	RX Sensitivity (dBm)	Total TX Power (dBm)	RX Sensitivity (dBm)			
802.11/11b	802.11/11b							
1 Mbps	1	17	-98	NA	NA			
11 Mbps	1	17	-89	NA	NA			
802.11a/g								
6 Mbps	1	20	-94	17	-94			
24 Mbps	1	20	-87	20	-87			
54 Mbps	1	20	-78	18	-78			
802.11n HT20								
MSC0	1	20	-93	20	-93			
MSC4	1	20	-83	18	-82			

#### Table 2.RF Specifications

Fransmit Power a					
MSC7	1	20	-75	16	-75
ASC8	2	20	-90	20	-90
ISC12	2	20	-80	18	-79
ASC15	2	20	-72	16	-72
802.11n HT40					
MSC0	1			20	-90
MSC4	1			18	-79
MSC7	1			16	-72
MSC8	2			20	-87
MSC12	2			18	-76
ASC15	2			16	-69
302.11ac VHT20					
MSC0	1			20	-93
MSC4	1			18	-82
MSC7	1			16	-75
ASC8	1			15	-71
MSC0	2			20	-90
MSC4	2			18	-79
ISC7	2			16	-72
MSC8	2			15	-68
302.11ac VHT40	-			10	00
MSC0	1			20	-90
NSC4	1			18	-79
MSC4 MSC7	1			16	-79
MSC8	1			15	-68
MSC9	1			15	-66
MSC0	2			20	-87
MSC4	2			18	-76
NSC7	2			16	-69
MSC8	2			15	-65
MSC9	2			15	-63
302.11ac VHT80					
NSC0	1			20	-87
MSC4	1			18	-77
MSC7	1			16	-69
MSC8	1			15	-65
MSC9	1			15	-63
MSC0	2			20	-84
MSC4	2			18	-74
MSC7	2			16	-66
MSC8	2			15	-62
MSC9	2			15	-60
		rv by channel and a	cording to individual cour		the product documentation for

## **Ordering Information**

Table 3 provides ordering information for the Cisco Aironet 1815w Access Point. To place an order, visit the <u>Cisco</u> <u>Ordering Home Page</u>. To download software, visit the <u>Cisco Software Center</u>.

Table 3. Ordering Information

Product Name	Part Number
Cisco Aironet 1815w	<ul> <li>AIR-AP1815w-x-K9: Dual-band, controller-based 802.11a/g/n/ac, Wave 2</li> <li>AIR-AP1815w-x-K9C: Dual-band 802.11a/g/n/ac Wave 2 with default software Mobility Express         <ul> <li>Regulatory domains: (x = regulatory domain)</li> <li>For Mobility Express, part number AIR-AP1815w-x-K9C offers default software option Mobility Express</li> </ul> </li> <li>Customers are responsible for verifying approval for use in their individual countries. To verify approval that corresponds to a particular country or the regulatory domain used in a specific country, visit</li> </ul>
	https://www.cisco.com/go/aironet/compliance. Not all regulatory domains have been approved. As they are approved, the part numbers will be available on the Global Price List.

#### **Cisco Wireless LAN Services**

Realize the full business value of your technology investments faster with intelligent, customized services from Cisco and our partners. Backed by deep networking expertise and a broad ecosystem of partners, Cisco Wireless LAN Services enable you to deploy a sound, scalable mobility network that enables rich media collaboration while improving the operational efficiency gained from a converged wired and wireless network infrastructure based on the Cisco Unified Wireless Network. Together with partners, we offer expert plan, build, and run services to accelerate your transition to advanced mobility services while continuously optimizing the performance, reliability, and security of that architecture after it is deployed.

For more details, visit: https://www.cisco.com/c/en/us/products/wireless/service-listing.html.

#### Warranty Information

The Cisco Aironet 1815w Access Point comes with a Limited Lifetime Warranty that provides full warranty coverage of the hardware for as long as the original end user continues to own or use the product. The warranty includes 10-day advance hardware replacement and ensures that software media is defect-free for 90 days. For more details, visit: <u>https://www.cisco.com/go/warranty</u>.

Find warranty information on Cisco.com at the Product Warranties page.

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